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Big Sky
Clearwater

Newsletter for Water and Wastewater Operators Fall 2001

Fall 2001
Volume XXXI, Issue 2

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Reflections In the Ripples

By Bill Bahr

The Big Sky Clearwater has long served as a conduit for information to flow to operators and managers of the public water and wastewater systems in Montana. The editors of this publication have included articles about new regulations, changes in rules, operation and maintenance tips, certification news, review questions for examinations, and news about professional organizations, along with news from other relevant programs. This issue will expand on this traditional printed form of communication by including this issue on the DEQ home page, which can be accessed through the State of Montana home page at http://www.deq.state.mt.us.

In keeping with our goals of streamlining government programs, electronic access may prove to be easier for many people, and will save the cost of printing and mailing each semiannual issue to everyone on our mailing list. It is our hope to be able to place current information on the DEQ homepage so that operators can get new rules sooner and can request feedback on problems more rapidly. To play a part in this initiative, please contact DEQ in writing, by phone or FAX (below), or through the DEQ homepage (above) and request the next issue of the Clearwater by electronic mail. We will add you to our electronic mailing list and remove you from the printed mailing list. This will save resources and tax dollars and you will still be able to print those portions of the publication that you want to keep on file.

Contact the following programs:
Community Services Bureau
Phone 406-444-4400
FAX 406-444-1374
Technical and Financial Services Bureau
Phone 406-444-6697
FAX 406-444-6836
Or, write to the Clearwater editors at DEQ:
1520 East Sixth Avenue
PO Box 200901
Helena, MT 59620-0901

Our mission at DEQ is to preserve and protect Montana waters and the best way to accomplish that important task is to work closely with the many dedicated professionals in charge of the water and wastewater treatment systems across the state. As always you are welcome to visit us at the Metcalf building on the state capitol complex.

Big Sky Clearwater

Volume XXXI, Issue 2
Fall 2001

Big Sky Clearwater, a publication of the Montana Department of Environmental Quality, is for water and wastewater operators and mangers. The Department welcomes articles of interest and suggestions for articles related to water quality, water and wastewater treatment and the water environment. Articles may be about your treatment plant experiences, or those of others, technical papers or any information that may benefit other operators or managers. Please submit articles 30 days before publication (August 1 and March 1).

Please contact DEQ at 406-444-6697 or 406-444-4400 or write to:

Editor, Big Sky Clearwater
Department of Environmental Quality
Metcalf Building
PO Box 200901
Helena, MT 59620-0901

The Big Sky Clearwater is published twice a year by the Planning, Prevention and Assistance and Permitting and Compliance Divisions of the Montana Department of Environmental Quality.

Editors:
Eric Minetti (Spring Issue)
Bill Bahr (Fall Issue)

Reflections (continued)

Recently, the Montana Environmental Training Center (METC) held an Advanced Lagoon Operations seminar in Columbus. Operators from several area systems were in attendance, and the discussions addressed everything from the new system at Columbus to problems at some older systems that have yet to be corrected. Those in attendance spent time comparing design flows and organic loads of their systems with calculated treatment system capacities to determine if problems might be due to limited system aeration and/or volume. The seminar included a visit to the new lagoon wastewater treatment plant (WWTP) at Columbus. A unique aspect of this system is the use of a portion of the treated wastewater to irrigate the local golf course following ultraviolet disinfection. Columbus public works director, Dennis Holtan, said the beneficial use of the effluent from the WWTP was achieved by working with community leaders. They were able to cooperatively address needs of both the golf course for irrigation water and the town to dispose of a portion of their wastewater in an environmentally sound manner. In the following photos, class participants are looking at the aeration processes and measuring dissolved oxygen levels in the ponds.

NEWS FROM THE ASSOCIATIONS:
Montana Water Environment Association (MWEA) and Montana Section of the American Water Works Association (MSAWWA)

THE 2001 CONFERENCE

The joint annual conference of MWEA and MSAWWA was held in Butte this past April. The conference included a variety of presentations and opportunities for interaction between engineers, managers, public officials, operators and manufacturer representatives. New officers were selected and inducted along with the conduct of business meetings for both associations. A list of the new officers and committee members is provided. Operators may wish to contact these professionals for assistance or advice and to find out what new and innovative treatment processes are in use around the state. These associations represent a wealth of information and expertise; a resource that should not be overlooked as you work to optimize treatment in your facilities.

STOCKHOLM JUNIOR WATER PRIZE

The Stockhom Junior Water Prize is an international environmental award presented to an individual or team of young people for the world's most outstanding water-related science project. Its mission is to engage, encourage and support the interest of future leaders in water environment issues. The Water Environment Federation (WEF) sponsors the United States winner at the international competition in Sweden. The winner is receives a $5000US award presented by Crown Princess Victoria of Sweden. In Montana, MWEA volunteers judged science projects at regional science fairs in Butte, Havre, Great Falls, Billings and Missoula, with the top science fair projects awarded regional recognition. The state winner, selected from the regional projects, was Alexandra Antonioli of Butte, who represented Montana in the national competition. Her project, titled, "An Evaluation of the Ability of Transgenetically Modified Chlamydomonas reinhardtii To Survive and Sequester Heavy Metals from the Berkley Pit, the Largest Abandoned Open Pit Copper Mine in Montana; Phase 2", was presented at the joint conference. Alexandra fared well in the national competition and at other national science fairs, however was not selected as the US winner. We wish her well next year with Phase 3 of this research and her future in science.

AWARDS

Dean Chaussee - AWWA Fuller award
Karen Sanchez - Arthur Sidney Bedell award
John Campbell - MSAWWA Operator's Meritorious Service award
City of Three Forks - MWEA Small System award
Don Willems Scholarships:
Kristin Van Andel MSU-Bozeman
Elsa Meiser MSU-Bozeman

THE 2002 CONFERENCE AND CALL FOR PAPERS

The conference will be held in Great Falls next year. The Program Committee is issuing a **call for papers** to all who would like to present a paper at that conference. Please send ideas or abstracts to the conference organizer, **Carolyn Chaussee, TYGR Management at 505 South Roberts, Helena, MT 59601, or call 406-443-5388**. Generally topics accepted for the technical sessions will address water and wastewater treatment and may include topics generally associated with our water environment. Please plan to attend and, if so inclined, provide valuable information to those in attendance about successful operations, innovations in treatment, new processes, or any number of appropriate topics. See you in Great Falls.

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MSAWWA Sponsors Fall Teleconference on Distribution Systems

The next semi-annual AWWA satellite teleconference is scheduled for Thursday November 1, 2001. The conference topic is: DISTRIBUTION SYSTEM REPAIR, REPLACEMENT AND MAINTENANCE. As always, the teleconference will be presented from an operations perspective. Leading experts in the field will assist operators in determining when to repair, replace or rehabilitate their system. Such issues as which decision is best for a utility and why, new technologies available, the steps involved in replacing a distribution system, proper construction practices and restoring service once the repair or replacement is complete, will be covered. Two live call-in segments, panel discussions and a video case study will be incorporated into the program as well.

The conference will run from 9:30 am to 1:30 pm and downlink sites will be available in Missoula, Butte, Bozeman, Helena, Havre and Billings. Cost will be $55 if pre-registered. Look for information on registration in the mail in September. Additional information can be obtained from Kevin Kundert @ 406/994-7738 or kkundert@montana.edu."

WATER AND WASTEWATER OPERATOR CERTIFICATION NEWS
By Shirley Quick, DEQ Certification Officer

EXPENSE REIMBURSEMENT GRANT FUNDING: WE'RE GETTING CLOSER!

The following steps have already been accomplished to get us even closer to receiving the United States Environmental Protection Agency (EPA) expense reimbursement grant funding for operators of community or non-transient non-community water systems serving a population of 3,300 or fewer:

- EPA approved the state operator certification program on December 8, 2000;
- EPA finalized their allocation method on December 2000;
- EPA clarified the grant process and started accepting grant requests as of May 2001;
- the Montana legislature approved the spending authority for the operator certification program to spend the grant money on April 2001; and
- The department (DEQ), Water and Wastewater Operators' Advisory Council, and other stakeholders jointly determined the work plan which determines how to reimburse this money based on EPA's requirements. This work plan must be submitted with the grant application.

These are the next steps that must be done before we can actually start reimbursing operator expenses:

- **Montana operator certification program must submit a grant request:** It will be submitted to EPA by publication date of the *Clearwater*. As with everything else, it took much longer than we had hoped.
- **EPA must approve the grant request:** EPA says there will be a 30-day turnaround time on approving grant requests.
- **Montana must finalize the reimbursement process:** DEQ will hire a full-time accountant position as quickly as possible after EPA approval is received. This accountant will develop the reimbursement process and be the reimbursement contact person.
- **DEQ will distribute guidelines and forms:** The new accountant will be sending out guidelines and forms to all appropriate systems and operators. This information will inform them what expenses will be reimbursed and how to request that reimbursement.
- **Start reimbursing expenses:** We hope to start accepting requests for reimbursement after July 1, 2002.
- **Operators who meet guideline requirements must submit requests:** Be ready to fill out lots of forms, but it will be worth it.

Types of expenses that MAY be reimbursed IF the operator or applicant meets requirements:

- Training course registration fees
- Annual water certification renewal fees
- Mileage to and from the training course
- *Water certification application fees*
- Water examination registration fees
- Training manuals
- Unpaid operators may also be reimbursed for lodging and meals

What does that mean to you, a small water system operator or owner? You shouldn't count on this money until EPA approves our grant request, but the certification office is getting closer to getting Montana's water operators their share of this reimbursement grant money.

Keep in mind that this grant should last for at least four years, BUT when it's gone, there isn't anymore.

EXAM UPDATES: NEW WASTEWATER EXAMS AT FALL 2001 WATER SCHOOL

The Certification Office contracted with Scott Anderson of Anderson-Montgomery Consulting Engineers to coordinate the process to update the wastewater exams. A-M was asked to determine what operators for each of the four classifications of nonindustrial wastewater systems need to know. They did this by surveys and by holding a work group comprised of operators of all classifications of wastewater operator. That information was used to determine which questions from the Association of Boards of Certification (ABC) databank should be used in each exam. The new exams will be ready to use at the September 21, 2001 exam in Bozeman following the Fall 2001 Water School.

The new exams will look different: There will be 100 multiple choice questions on each exam, no essay questions. The answers to the questions will be put on a "bubble sheet" – a sheet with little circles that you fill in with a pencil to indicate the correct answer. These sheets will be fed into a computer for grading at the ABC office in Ames, Iowa.

The exams may also take a little more studying than the old exams: Since these new exams cover everything an operator needs to know to do the job, the studying necessary may also need to be more in-depth than the old exams. Therefore, an applicant for the exams may need more preparation time than in the past.

New wastewater study guides: As part of his duties, A-M will also be developing better study guides to help operators prepare for the exams. He will also be determining if more study materials than were required in the past will be needed to study for the exams. If he finds that this is the case, information on how to obtain these study materials will be sent out to all wastewater exam applicants in July or August.

Better exam result statistics: As part of the service provided by using the ABC exams and their computerized grading system, all applicants who take the new wastewater exams will receive detailed statistics on how they did on all subject areas in the exam. This will make it easier for applicants to see if they need to spend more time studying a particular area of their job.

Faster turnaround time: Thanks to the ABC grading system, the wastewater exams will be graded faster. And thanks to our new database, the exam result documents will be processed faster. On a related note, the Water and Wastewater Operator Advisory Council recently agreed that exam results can be mailed as soon as the result notification letters and documents are ready instead of waiting until their next Council meeting.

As with all new things, the exams will take some getting used to; however, we are committed to having the best exams and study materials possible to ensure that new operators are evaluated properly and that the public health is protected.

As with these and all other Montana Water and Wastewater Operator Certification issues, if you have any questions please call Shirley Quick at 444-2691. Also, call Reta Therriault (444-3434) to receive applications to become certified or for any other certification process questions; and Ashley Finnegan (444-4584) for continuing education credit status and certification renewal questions.

CEC NAGGINGS

(THAT YOU MAYBE SHOULDN'T IGNORE)

CONGRATULATIONS to all operators who got re-certified by paying the renewal fees by June 30, 2001.

You have until June 30, 2002 to get all your continuing education credits. There are lots of fun and exciting ways to get your credits. These includes attending any approved courses (the METC 2000 calendar lists courses from lists of training providers, so check out the ones from July through December). You can complete an approved correspondence course (these are also listed in the METC calendar), or find your own class and apply to have it approved for credit. There are also some new ways to earn credits: Internet and CD-Rom courses. Remember that operators-in-training are not required to earn CEC's.

I will be sending your status reports to you in December. If you would like to know your status now or have any questions please give me, Ashley Finnegan, Water/Wastewater Operator Certification Office clerk a call at (406) 444-4584. I should have all the credits entered into the NEW computer system by the end of August. I just want to THANK everyone for being so understanding during our big database change.

2001 Fall Examinations!

Fall Water & Wastewater Exams

Friday, September 21, 2001
MSU-Strand Union Building, Bozeman
Registration @ 8:00 a.m. Examination Period: 8:30 a.m. – 12:30 p.m.

NOTE, THERE WILL BE NO EXCEPTIONS TO THIS:
By SEPTEMBER 06, 2001, as required by ARM 17.40.208, everyone taking examinations must have sent in the following:

1. Completed application for certification as a water and/or wastewater operator;
2. Paid application fee of **$70.00 per water** and/or **$70.00 per wastewater**; and
3. Registration slip and fee of **$70.00 per** examination.
   (Combination exams **2A3B, 3A4B, 4AB and 5AB require $70.00 examination fee**.)

To request application materials or to ask for additional information, call the certification office at 444-3434 for Reta Therriault, 444-4584 for Ashley Finnegan or write to:

Department of Environmental Quality
Water and Wastewater Operator Certification
PO Box 200901
Helena MT 59620-0901

✂ -

Fall Water & Wastewater Exams

Friday, September 21, 2001
MSU-Strand Union Building, Bozeman
Registration @ 8:00 a.m. Examination Period: 8:30 a.m. – 12:30 p.m.

Water & Wastewater Operator Certification

To register for an exam, detach and return this slip with appropriate fees by September 06, 2001

	1	2	3	4	5
A – Water Distribution	___	___	___	___	___
B – Water Treatment	___	___	___	___	___
C – Wastewater Treatment	___	___	___	___	

Name: _____ **Operator #:** _____

System Name: _____

Mailing Address: _____ **Phone#** _____

City/State/Zip: _____

MARCH MATH REVIEWS DISCONTINUED:

At the May 17, 2001 Water and Wastewater Operator's Advisory Council meeting, it was decided to discontinue the math reviews that have been held the night before the March exams. This does not include the basic track sessions taught by DEQ at the spring school or by MRWS in Kalispell which will continue to be held. (see your METC training calendar for more information)

If you have any questions about this or the examination process, call Reta Therriault at 406/444-3434.

APPLICANTS PASSING EXAMINATIONS FOR FULL CERTIFICATION OR OPERATOR IN TRAINING (OT) - JANUARY 2001 - JUNE 2001

CLASS 1'S

ARANGO, Carlos	Havre	1B (OT)
BENDROOK, Delores	Whitefish	1B (OT)
BURNS, Jim	Billings	1B
CABALLERO, Gilbert	Zortman	1D
CEBULSKI, Nick	Zortman	1D
CLINE, Robert	Helena	1C (OT)
DECKER, Scott	Chester	1B (OT)
DUKLETH, Timothy	Havre	1B (OT)
GEBHARDT, Angela	Missoula	1A (OT)
GILDEN, Scott	Helena	1A (OT)
HART, Kevin	Helena	1A (OT)
HERMAN, Nathan	Laurel	1B (OT)
KUNO, Jered	Great Falls	1B (OT)
MITCHELL, Kevin	Zortman	1D
MUMMEY, Michael	Zortman	1D
PURDON, Arnold	Forsyth	1B (OT)
RAYL, Rock	Great Falls	1B (OT)
SCHMIDT, Donald	Missoula	1C
SHELTON, Michael	Billings	1B
SNIDER, Alan	Zortman	1D
SOUDER, Bruce	Billings	1C (OT)
STUDINER, Douglas	Billings	1C
SWENSON, Chris	Have	1B (OT)
TRACY, John	Butte	1A (OT)
WALKER, Karol	Power	1B
YOCUM, Wanda	Melstone	1B (OT)

CLASS 2'S

AGOSTO, Humberto	Wolf Point	2A3B
ARSENEAU, Chuck	Whitefish	2C (OT)
BENBROOK, Delores	Whitefish	2A (OT)
BRIDGES, Derek	Poplar	2C (OT)
CARLSON, Karl	Billings	2C
JESSOP, Edson	Pinesdale	2B (OT)
JESSOP, Paul	Pinesdale	2B (OT)
JOHNSON, Jason	Dillon	2A3B (OT)
LEAR, Paul	Forsyth	2A (OT)
MONSON, Dirk	Glasgow	2A (OT)
MYERS, Jean	Lewistown	2C (OT)
WOODS, James	W Glacier	2B (OT)

CLASS 3'S

CHAPPELL, Vincent	Seeley Lake	3A
CURTISS, Justin	Circle	3A4B (OT)
DuBOIS, Joseph	Box Elder	3C (OT)
FULTON, Violet	Black Eagle	3A (OT)
GEBHARDT, Angela	Missoula	3B (OT)
HARGROVE, Doug	Kevin	3C (OT)
JESSOP, Edson	Pinesdale	3A
JESSOP, Paul	Pinesdale	3A
JOHNSON, Levi	Winnett	3C
LOUDERMILK, Andrew	Lakeside	3C (OT)
LOWRY, Lorin	Hamilton	3B (OT)
MARMON, David	Ronan	3C
MITCHUM, Kevin	Big Timber	3A4B
MONSON, Dirk	Glasgow	3C
PAINTER, Robert	Chinook	3A
PARKER, John	Box Elder	3A4B (OT)
RAYL, Rock	Great Falls	3A4B (OT)
SINGER, Michael	Whitefish	3C (OT)
SOLBERG, Brian	Chinook	3A
STEWART, Robert	Fairfield	3A4B (OT)
SUTA, James	Cut Bank	3C
THOMAS, Archie	Corvallis	3A4B (OT)
WHITT, Dave	Kevin	3C (OT)
WILSON, Joseph	Bozeman	3C
WINDYBOY, Andrew	Box Elder	3A4B (OT)
WINDYBOY, Ivan	Box Elder	3C (OT)
WOODS, James	W Glacier	3A (OT)

CLASS 4'S

ALLEN, Michael	Dodson	4AB (OT)
BARTON, Lanny	Kalispell	4AB (OT)
BIDGOOD, Clifford	Columbia Falls	4AB (OT)
BREWER, Barry	Hungry Horse	4AB (OT)
BROERS, Henry	Martin City	4AB
BURKE, Christopher	Glacier Park	4AB (OT)
CURTISS, Justin	Circle	4C (OT)
DECKER, William	Great Falls	4AB
DOUGHERTY, Gregg	Arlee	4AB (OT)
ELVERUD, Melvin	Chester	4C
FLADLAND, Loren	St Marie	4A (OT)
GILLIS, John	Melrose	4C
GOHN, Earl	Huntley	4AB
GOPHER, Paul	Box Elder	4AB (OT)
GRAF, Richard	Whitefish	4AB (OT)
GREENWOOD, Gary	Moore	4C (OT)
HANSON, Marty	Richey	4AB (OT)
HOFER, John P.	Galata	4AB
JARVIS, James	Virginia City	4AB (OT)
JARVIS, James	Virginia City	4C (OT)
JOHNSON, Richard	Billings	4AB (OT)
JOHNSON, Levi	Winnett	4AB
KEEVER, Douglas	W Glendive	4C
LaBUDA, Allan	N Havre	4A (OT)
LUOMA, Kent	Sand Coulee	4AB (OT)
MEFFORD, Andy	Missoula	4AB
MILER, Brent	Bozeman	4AB (OT)
MINNERATH, Don	Saco	4AB
MITCHELL, Earl	Custer	4C
MOOG, Robert	Joplin	4C
MUNSELL, John	Miles City	4C
MYRSTOL, John	Clyde Park	4AB
NECKSTAD, Ronald	Augusta	4C
NOT AFRAID, Wayne	Crow Agency	4AB
PETTY, William	W Glendive	4C
RECH, Craig	Billings	4A,4B (OT)
REES, Roland	Ramsay	4C
SCHMORDE, Daniel	Great Falls	4A
SEAVEY, Lloyd	Belgrade	4AB
SHIELDS, Arnold	Harlem	4AB (OT)
STEWART, Robert	Fairfield	4C (OT)
SWARTZ, Jim	Centerville	4AB (OT)
WALDNER, David W.	Valier	4AB
WITHAM, Mark	Sand Coulee	4AB (OT)
WHITT, Dave	Kevin	4AB (OT)
WURZ, Gary J.	Conrad	4AB (OT)
WURZ, John D.	Sweetgrass	4C (OT)

CLASS 5'S

CURTISS, Cymon	Libby	5AB
HUDBERG, Gloria	Augusta	5AB
HUDBERG, Mark	Augusta	5AB
MASON, Heath	Helena	5AB
McBROOM, Douglas	Condon	5AB
MEEK, Robin	Helena	5AB
NELSON, Fredrick	Missoula	5AB
NELSON, Tony	Kalispell	5AB
SHEELER, Joseph	Clancy	5AB
WALDNER, David J.	Havre	5AB
WOLFE, Glenn	Chester	5AB
WOODEN, Kirt	Milltown	5AB

KEY

A = Water distribution Operator
B = Water System Operator
AB = Well Water System Operator
C = Wastewater System Operator
D = Industrial Wastewater System Operator
OT = Operator-in-Training

CONGRATULATIONS! Hats off to all of the operators who passed their examinations. The exams for certification require considerable time in study and preparation. Passing represents a lot of hard work and initiative on the part of the individual. Be sure to show your appreciation to your water and wastewater operator for working hard to ensure that they are properly trained to care for your system!

68th Annual Fall School Agenda

MONDAY SEPTEMBER 17, 2001

Joint Opening Sessions 8:15 am-12:00 pm
Welcome to the Water School Ballroom A
Operator Certification Update
Public Health Impacts
Water Resource Center
Biofilm Research Center
Community Needs & Paying For Them
Basic Track Ballroom D 11:15 am–3:00 pm
Lunch
Water Sessions Ballroom A 1:00-3:00 pm
Rules Update
Operator Reimbursement
Wastwater Sessions Rooms 275/276 1:00-3:00 pm
Discharge Permits: New Developments
Watersheds and TMDLs
Vendor Show Ballroom B/C 3:00–5:00 pm

TUESDAY SEPTEMBER 18, 2001

Basic Track Ballroom D All Day
Joint Water Sessions Ballroom B/C (morning)
Valving Applications 8:00 am-12:00 pm
Joint Wastewater Sessions Rooms 275/276 (morning)
Wastewater Treatment in Montana 8:00 am
Wastewater Microbiology and Laboratory 10:15 am
Lunch
Surface Water Systems Ballroom B 1:00-5:00 pm
Surface Water Treatment
Groundwater/Distribution Ballroom C
Water Well Construction and Production Problems 1:00-2:30 pm
Monitoring Levels in Wells to Assess Conditions 2:30-4:00 pm
Montana Water Resources and Drought 4:00-5:00 pm
Mechanical Wastewater Systems Room 275
Tools for Mechanical & Industrial Wastewater Systems 1:00-3:00 pm
Lagoon Wastewater Systems Room 276
Tools for Lagoon Systems 1:00-3:00 pm
Joint Water & Wastewater Sessions
Motor & Pump Maintenance Room 275 3:15-5:00 pm
Bloodborne Pathogens Room 276 3:15-5:00 pm
Tour of the Bozeman WWTP 3:15-5:00 pm

WEDNESDAY SEPTEMBER 19, 2001

Basic Track Ballroom D All Day
Surface Water/Ground Water Systems Ballroom B
Disinfection Byproducts 8:00 am-12:00 pm
Ground Water Systems Ballroom C 8:00 a-12:00 pm
How is that Graveyard Impacting Our Drinking Water
Is Development Near Your Well a Bad Thing?
Build An Edible Aquifer
What Can Your Montana Source Water Protection Program Do For You?
Distribution Systems Room 275
Bozeman Dist. O&M Center Tour 7:45-10:00 am
Distribution and Safety 10:15 am-12:00 pm
Wastewater Systems Room 276 8:00 am-12:00 pm
New Technologies: Aeration Systems
Headworks Treatments
Biosolids in Montana
Land Application of WWTP Effluents
Lunch
Surface Water Systems Ballroom B 1:00-5:00pm
Surface Water Treatment
Ground Water Systems Ballroom C 1:00 5:00 pm
Cross Connections: What Are They?
Sizing Your Pump to Your Well
Iron and Manganese
Distribution Systems Room 275
Knowing Your Distribution System 1:00-3:00 pm
Joint Water Sessions Room 275 3:15-5:00 pm
Total Coliform Rule and Public Notice
Understanding Lab Results
Joint Wastewater Sessions Room 276 1:00-5:00 pm
Industrial Wastewater Treatment at Smurfit-Stone
Enforcing Environmental Laws in Montana
Innovations in Wastewater Treatment: Case Studies
The New Helena BNR WWTP
The Proposed East Helena WWTP

THURSDAY SEPTEMBER 20, 2001

Basic Track Ballroom D 8:00-9:00 am
Joint Water & Wastewater Sessions Ballrooms B/C 8:00 am-12:00 pm
Is SCADA for You?
System Management
Wrap-Up
Adjourn
Exam Prep Sessions 1:15-4:30 pm
Water Treatment/Distribution Review Room 275
Wastewater Treatment Review Room 276

FRIDAY SEPTEMBER 21, 2001

Certification Exams Ballroom B/C 8:00 am 12:30 pm

2001 FALL SCHOOL REGISTRATION INFORMATION

CONTACT:

MSU-BOZEMAN OFFICE OF EXTENDED STUDIES

PO BOX 172200

204 CULBERTSON HALL

BOZEMAN, MT 59717-2200

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